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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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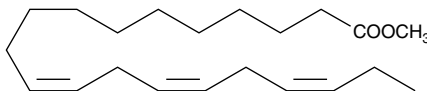
Product Information



11(Z),14(Z),17(Z)-Eicosatrienoic Acid methyl ester

Item No. 17622

CAS Registry No.: 62472-96-2
Formal Name: 11Z,14Z,17Z-eicosatrienoic acid, methyl ester
MF: C₂₁H₃₆O₂
FW: 320.5
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 11(Z),14(Z),17(Z)-eicosatrienoic acid methyl ester be stored as supplied at -20°C. It should be stable for at least one year.

11(Z),14(Z),17(Z)-Eicosatrienoic acid methyl ester is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 11(Z),14(Z),17(Z)-eicosatrienoic acid methyl ester in these solvents is approximately 100 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of 11(Z),14(Z),17(Z)-eicosatrienoic acid methyl ester is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. For greater aqueous solubility, 11(Z),14(Z),17(Z)-eicosatrienoic acid methyl ester can be directly dissolved in 0.1 M Na₂CO₃ (solubility of 1 mg/ml) and then diluted with PBS (pH 7.2) to achieve the desired concentration or pH. We do not recommend storing the aqueous solution for more than one day.

11(Z),14(Z),17(Z)-Eicosatrienoic acid (Item No. 90192) is a rare ω-3 PUFA in normal humans. However, it is one of the most active essential fatty acids when assayed for the inhibition of fatty acid elongation/desaturation reactions which convert dietary C-18 fatty acids to C-20 eicosanoid precursors.¹ 11(Z),14(Z),17(Z)-Eicosatrienoic acid methyl ester is an ester version of the free acid that may be more amenable for the formulation of fatty acid-containing diets and dietary supplements.

Reference

1. Holman, R.T. Control of polyunsaturated acids in tissue lipids. *J. Am. Coll. Cardiol.* **5(2)**, 183-211 (1986).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/17622

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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